

# DESIGN OF THE SPECIALISED ELECTRICAL SERVICES OF A CLINIC

PROJECT REPORT SUBMITTED BY:

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## INTRODUCTION

This project deals with the analytical design of the specialised Electrical Services of a Clinic. Working drawings will be provided for the above insulation for the following services:

- (a) lightning protection
- (b) central antenna system
- (c) sound distribution
- (d) Nurse's call system
- (e) Electrical services of the operating theatre
- (f) stand-by and emergency supplies

For each of this service, the appropriate regulation shall be used in the design.

For lightning protection, the proper protective method will be selected and the proper arrangements will be made for the design, according to British Standards.

For central antenna system the British Standards will be considered to the design, and the proper Bands of reception will be found for the ordinary channels.

Sound distribution will be designed according to <sup>the</sup> British standards, and decided for the available programs.

Electrical services for the operating theatre will be designed taking to consideration the special work of the operating theatre and the dangers of a possible failure.

Stand-by and emergency supplies will be design in such a way so as to be the clinic able to continue its operation even if the main supply fails.

A system of horizontal conductors installed on the roof of the building which are before are connected directly to each through down conductors.

## TABLE OF CONTENTS

	PAGE
INTRODUCTION	
 <b>CHAPTER I: LIGHTING PROTECTION SYSTEM</b>	
1. General	1
1.2 Lightning protection schemes	1
1.3 Characteristics of lightning	2
1.4 Effects of lightning	3
1.5 Need for protection	4
1.6 Zone of Protection	5
1.7 System Design Considerations	5
1.8 Parts of lightning systems	5
1.9 Design calculations	7
1.10 Selection Method of Protection	8
 <b>CHAPTER II: CENTRAL ANTENNA SYSTEM</b>	
2.1 Theory of central Antenna system	9
2.2 Equipment involve in a central antenna system	10
2.3 General Technical requirements	1 3
2.4 Installation instruction	14
2.5 Other important information	16
2.6 Design Procedure	16
2.7 Actual Design	17
2.8 Calculations	18
2.9 Pre-amplifier Selection	22
2.10 Selection of Antenna	
 <b>CHAPTER III SOUND DISTRIBUTION SYSTEM</b>	
3.1 Theory-General	27
3.2 Sound distribution system equipment	2 8
3.3 General Technical Requirements	31
3.4 Deign Procedure and Practical Suggestions	32
3.5 Actual Design	37
3.6 Calculation of the amplifier	43
3.7 Theoretical calculations of matching transformers	43

3.8	Selection of line impedances of transformer	46
3.9	Selection of other equipment in the sound distribution system	47

**CHAPTER IV: NURSE CALL SYSTEM**

4.1	Theoretical design	51
4.2	Wiring	51
4.3	Actual design	53

**CHAPTER V: OPERATING THEATRE ELECTRICAL SERVICES**

5.1	General	55
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**CHAPTER VI: STAND-BY AND EMERGENCY SUPPLIES**

6.1	General	58
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Conclusions

Appendices

Drawings